
LEWIS COUNTY

(Lewis County Water Service Area Map)

- Estimated 1999 population of 13,700--50% on public water
- Estimated 2020 population of 15,100--65% on public water
- 165 miles of water lines, with plans for 115 additional miles
- Estimated funding needs for public water 2000-2005: \$6,980,000
- Estimated funding needs for public water 2006-2020: \$3,395,000

Lewis County had an estimated population of 13,668 (5,398 households) in 1999 with a projected population of 15,073 (6,326 households) in 2020. Public water is provided to about 50 percent of the county's residents. In areas of the county not served by public water, about 5/8 of the households rely on private domestic wells and 3/8 of the households rely on hauled water, cisterns and other sources. About 960 customers will be added to public water service through new line extensions in 2000-2020.

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
LEWIS								-
Garrison-Quincy Hts. W/D	16.2	142	1,000					1,000
Western Lewis Rectorville	39.9	250	1,995				425	2,420
Vanceburg Electric Board	57.3	325	2,292		418		850	3,560
LEWIS TOTAL	113.4	717	5,287		418		1,275	6,980

Estimated Costs - Proposed Projects, 2006-2020

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
LEWIS								-
Western Lewis Rectorville W/D	47.9	240	2,395				1,000	3,395
LEWIS TOTAL	47.9	240	2,395				1,000	3,395

PUBLIC WATER SYSTEMS

There are 2 public water systems in Lewis County: 1 municipal, Vanceburg Electric Plant Board; and 1 water district, Garrison Quincy Heights Water District. A few residents in the county may also be served by Fleming County Water Association, Western Lewis Rectorville Water District, and South Shore Water Works, Inc. Lewis County, because of its physical

WATER SERVICE AREAS

LEWIS COUNTY

Kentucky

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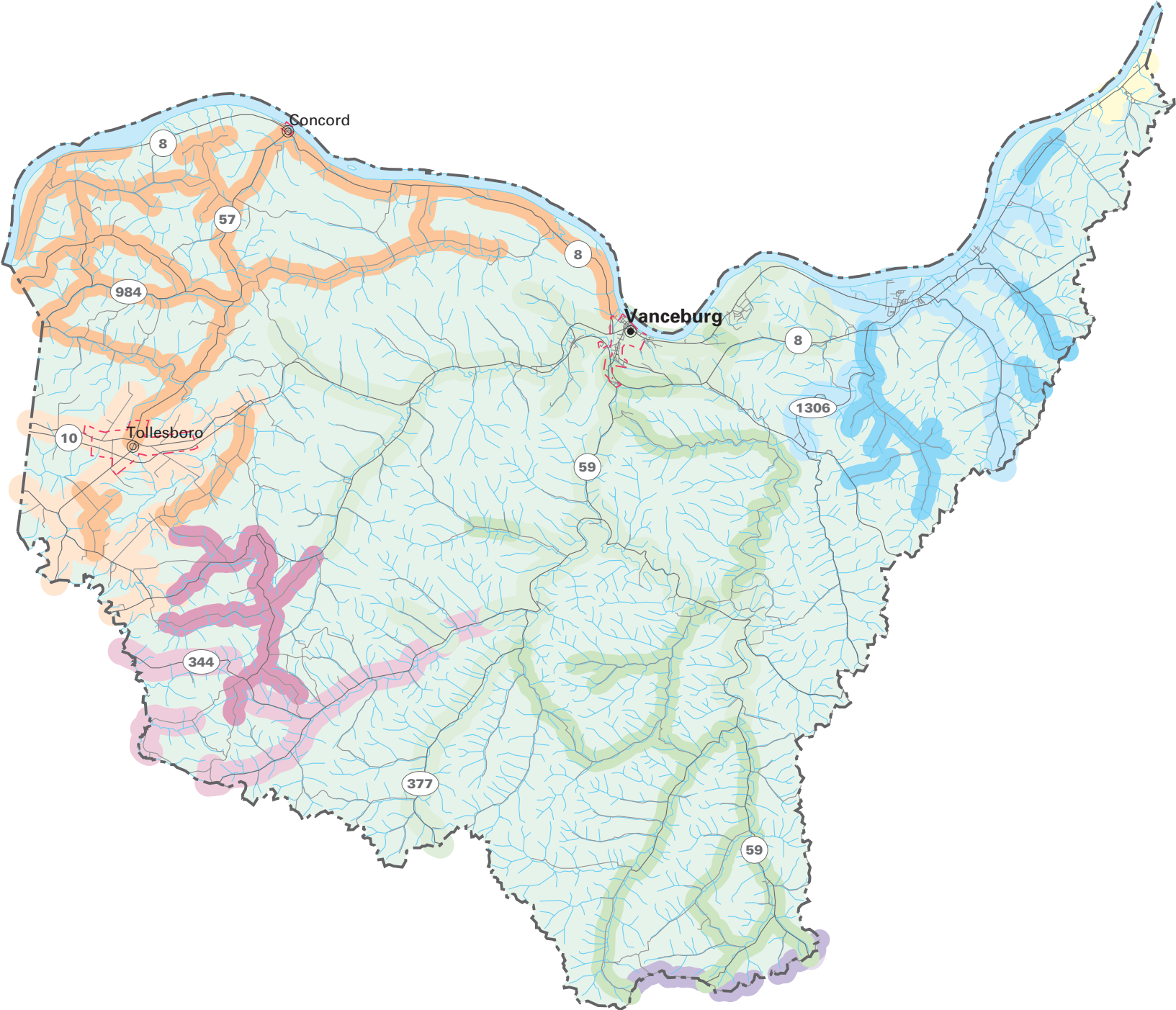
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WATER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	
		WESTERN LEWIS RECTORVILLE WATER DISTRICT
		VANCEBURG ELECTRIC PLANT BOARD
		RATTLESNAKE RIDGE WATER DISTRICT
		JOE HANNAH
		GARRISON QUINCY HGTS WATER DIST
		FLEMING COUNTY WATER ASSOCIATION

size, (484 square miles) and low population (13,029) contains more areas not feasible for traditional waterlines than the other four BTADD counties.

GARRISON QUINCY HEIGHTS WATER DISTRICT

PWSID: 0680153
System Type: COMMUNITY
Owner Type: WATER DISTRICT
Surface Source:
Purchase Source:
Well Source: Yes
Sells Water to:
Treatment Plant Capacity (MGD): 0.29
Percent Daily Average Production: 56.00
Total Tank Storage Capacity (gallons): 105,000.00
Total Service Connections: 604.00
Number of Employees: 2.00
Treatment Operator Class:
Distribution Operator Class: 2BD
Customer Rate for 1,000 Gallons: 4.66
O/M costs 1997: 113,011.00
O/M costs per Service Connection: 146.20
Net Revenue 1997: 23,808.00
Total Water Produced 1997 (gallons): 5,109,000.00
Water Sold 1997 (gallons): 37,565,000.00
Unaccounted-for Water 1997 (%): 9.38

Garrison-Quincy Heights Water District serves the eastern portion of Lewis County.

Garrison-Quincy Water District has identified approximately 16 miles of waterline to serve about 142 households. Currently the district gets its water from wells. The District has also identified 80 households as not feasible for traditional delivery systems.

VANCEBURG ELECTRIC PLANT BOARD

PWSID: 0680438
System Type: COMMUNITY
Owner Type: MUNICIPAL
Surface Source:
Purchase Source:
Well Source: Yes
Sells Water to:
Treatment Plant Capacity (MGD): 0.86
Percent Daily Average Production: 75.00
Total Tank Storage Capacity (gallons): 150,000.00
Total Service Connections: 2,000.00
Number of Employees: 5.00
Treatment Operator Class: 2D
Distribution Operator Class: 3B
Customer Rate for 1,000 Gallons: Not available
O/M costs 1997: Not available

O/M costs per Service Connection:	Not available
Net Revenue 1997:	Not available
Total Water Produced 1997 (gallons):	Not available
Water Sold 1997 (gallons):	Not available
Unaccounted-for Water 1997 (%):	Not available

Vanceburg Electric Plant Board has identified two (2) projects as “immediate” these include approximately 57 Miles of waterline to serve approximately 355 new customers. The Electric Plant Board currently utilizes wells as a source. The Plant Board also identified 436 households as not feasible for traditional delivery systems.

WESTERN LEWIS RECTORVILLE WATER DISTRICT

Western Lewis Rectorville Water District, which serves both Mason and Lewis Counties, currently has a grant application under review for approximately 29 miles of waterline, which includes a 200,000 gallon water tank. Additional immediate projects listed include approximately 60 miles of new waterlines serving approximately 285 households in both Lewis and Mason Counties. The District has identified 160 households in both Lewis and Mason Counties as needing non-traditional delivery systems. Western Lewis Rectorville Water District’s source is wells and has a green sand filter treatment plant. The District also purchases water from Maysville.

PRIVATE DOMESTIC SYSTEMS

About 6,750 residents of Lewis County rely on private domestic water supplies: about 4,200 on wells and 2,550 on other sources.

The alluvium along the Ohio River is the best source of ground water in the county. Many properly constructed drilled wells will produce several hundred gallons per minute from the alluvium, with most wells able to produce enough for a domestic supply at depths of less than 100 feet. Water is hard or very hard but otherwise of good quality.

Some wells located in the major creek valleys will produce enough water for a domestic supply except during dry weather. In the upland areas of Lewis County, which encompasses 90% of the county, most drilled wells will not produce enough water for a dependable domestic supply except along drainage lines that may produce enough water except during

dry weather. Ground water in these areas is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet.
